



State of New Hampshire
DEPARTMENT OF ENVIRONMENTAL SERVICES

6 Hazen Drive, P.O. Box 95, Concord, NH 03302-0095

(603) 271-3406 FAX (603) 271-7894



October 19, 2001
Letter of Deficiency
DAM #124.14

Mr. Jonathan Sistare
Town Manager
Town of Jaffrey
10 Goodnow Street
Jaffrey, NH 03452

RE: Poole Reservoir Dam, Jaffrey

Dear Mr. Sistare:

The Department of Environmental Services, Dam Bureau (DES) consistently strives to enhance the safety of dams in New Hampshire through its dam safety program. One of the many instruments that plays a part in reaching this goal is our inspection program. DES is forwarding this correspondence to you to advise you that in accordance with RSA 482:12 and Env-Wr 502.02, an inspection of the subject dam was conducted on August 16, 2001. During this visual inspection and/or file review, the following deficiencies were observed:

1. This is historical seepage on the left abutment that was not present during this inspection;
2. Gunit patchwork found on the inside downstream right wing wall. There are no signs of seepage in this area;
3. Inside the intake works, concrete eroding;
4. Crack on the left retaining wall, toward the upstream side;
5. There is a small area of spalling on the spillway crest near the left retaining wall toward the downstream side;
6. The downstream side of the right retaining wall appears to have some undermining;
7. There is a crack in the upstream right abutment wall, grass growing through the crack;
8. The top of the right retaining wall is not flush with the earthen embankment;
9. There is erosion occurring on the left wing wall dike, downstream side;
10. There are trees along the left wing wall dike, roots penetrating the crest;
11. There are a few rodent holes on the right embankment and the left wing wall dike;
12. There is general mowing required on the right embankment and the left wing wall dike; and

Letter of Deficiency
Dam #124.14
October 19, 2001
Pg. 2

13. There is brush on the upstream side of the right embankment.

DES believes that the above deficiencies can be corrected by performing the following items by **March 1, 2002:**

1. Repair the crack on the left retaining wall, toward the upstream side;
2. Patch the small area of spalling on the spillway crest near the left retaining wall toward the downstream side;
3. Repair the crack in the upstream right abutment wall, grass growing through the crack;
4. Fill and level the earthen embankment near the area that is not flush with the top of the right retaining wall;
5. Fill and re-vegetate the erosion hole occurring on the left wing wall dike, downstream side;
6. Cut all the trees on the left wing wall dike from the park sign toward the dam;
7. Mow the earthen embankments and the left wing wall dike;
8. After mowing, check for rodent holes and fill if necessary;
9. Remove the brush on the upstream side of the right embankment and revegetate if necessary;
10. Prepare and submit an operational procedure plan. The plan should describe the control of impoundment levels, monitoring and maintenance procedures, and identify emergency contact personnel;

Continuously Monitor:

11. Monitor the areas of historical seepage on the left abutment, adjacent to the outside of the downstream spillway abutment wall;
12. Monitor the wet areas of Gunit patchwork;
13. Consider repairing the eroding concrete inside the intake works, if not monitor this area; and
14. Monitor the downstream side of the downstream right retaining wall. It appears to have some undermining.

Letter of Deficiency
Dam #124.14
October 19, 2001
Pg. 3

DES is requesting that you complete and submit the attached "Intent to Complete Repairs" form, within 30 days of receipt of this letter, that will provide for correction of the identified deficiencies by the date(s) indicated above. If you believe changes to the items of work or dates are necessary, please make the changes directly on the form and provide a brief explanation. We have enclosed a self addressed stamped envelope for you to return this form.

Our intent in sending you this correspondence is to make you aware of items that DES believes warrant your attention to insure the continued safe operation of your dam. It is our hope that, through the submittal of the attached form and a commitment to keeping a well-maintained dam, you will voluntarily comply with the requested items of work. If we do not receive the intent form or a similarly adequate written reply, we will assume that you are in agreement with our findings and recommendations and DES will carry out follow-up inspections accordingly.

If you have any questions or comments regarding this Letter of Deficiency or would like to be present at future inspections, please contact me at 271-3406, or write to the Water Division at the address listed on the top of the previous page.

Sincerely,

A large, stylized handwritten signature in black ink, appearing to read "Amy C. Clark".

Amy C. Clark
Dam Safety Engineer

Attachments Guideline for an O&M plan, DB8, DB13
cc: Gretchen Rule

Diane Hardy, DRED
Certified # 7099 3400 0002 9772 7987
ACC/was/h:/safety/wendy/lod/124.14lod.doc